

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P945395

Luminaire Tested: **GALN-SB1B-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

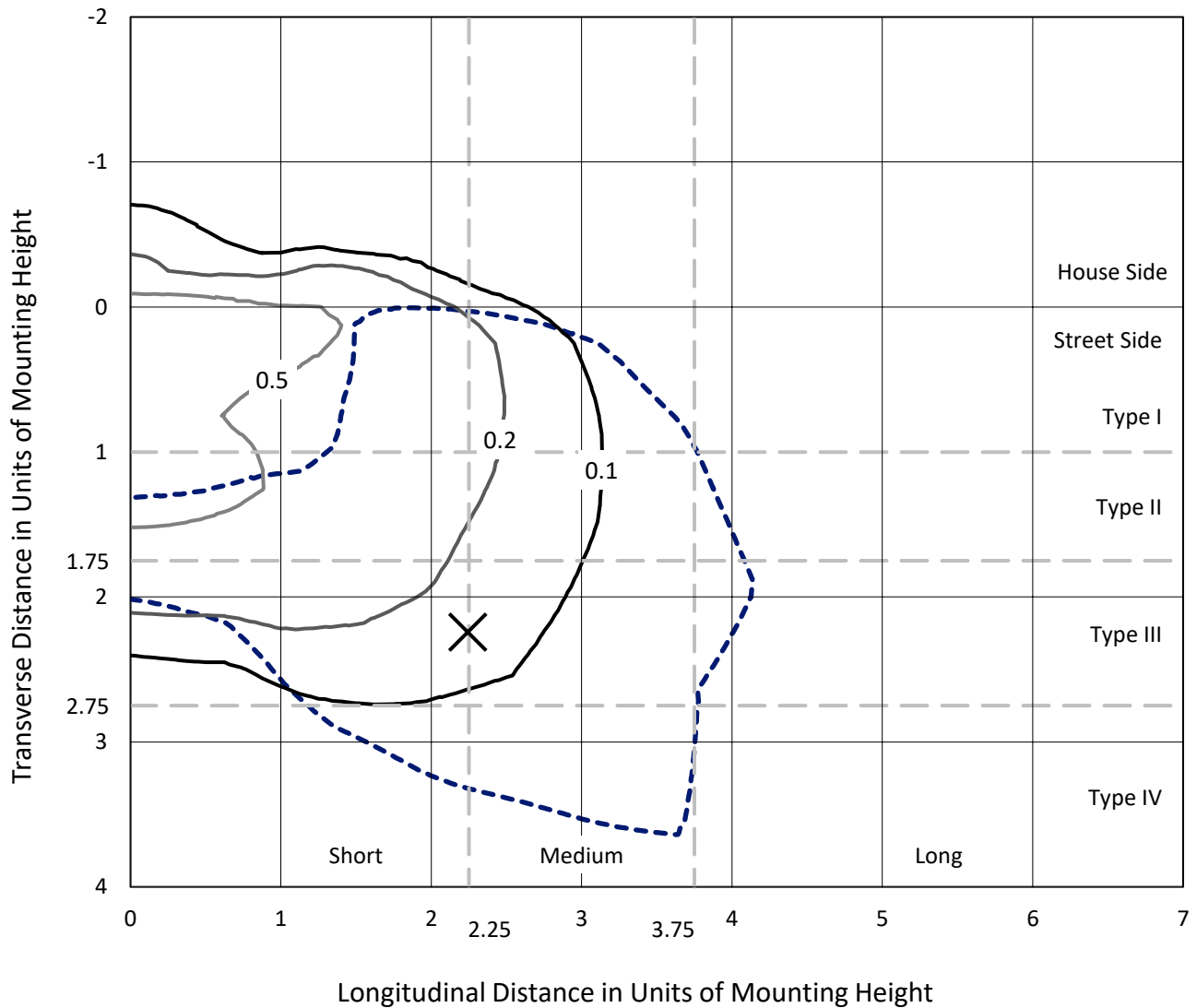
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

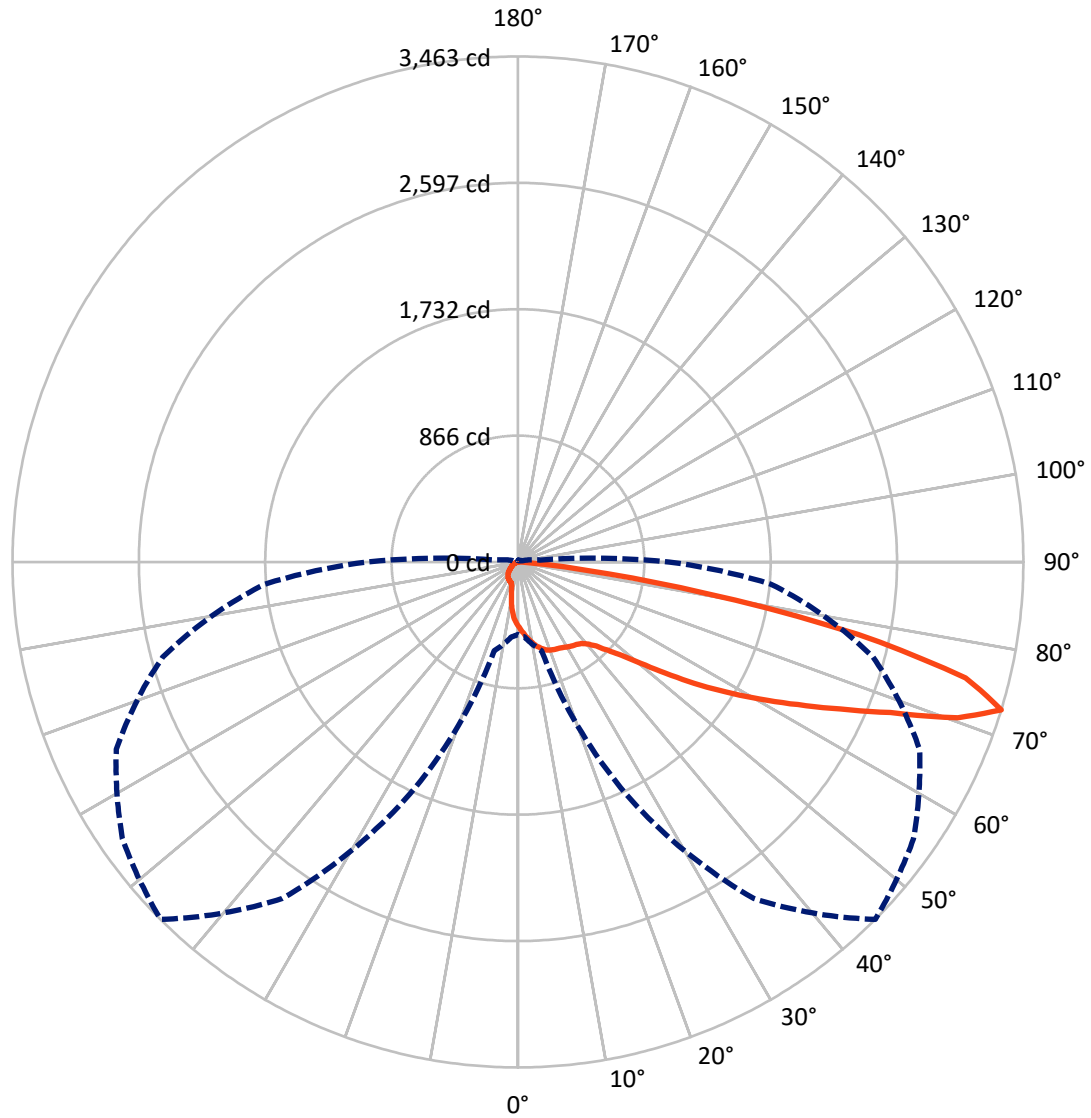
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 422.9 | 0.0 | 422.9 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 3602.1 | 0.0 | 3602.1 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 4025.0 | 0.0 | 4025.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.5 | 1.0 |
| 10°-20° | 121.4 | 3.0 |
| 20°-30° | 199.4 | 5.0 |
| 30°-40° | 282.8 | 7.0 |
| 40°-50° | 467.4 | 11.6 |
| 50°-60° | 839.7 | 20.9 |
| 60°-70° | 1165.9 | 29.0 |
| 70°-80° | 845.7 | 21.0 |
| 80°-90° | 61.1 | 1.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4025.0 | 100.0 |
| 0°-180° | 4025.0 | 100.0 |

Coefficient of Utilization



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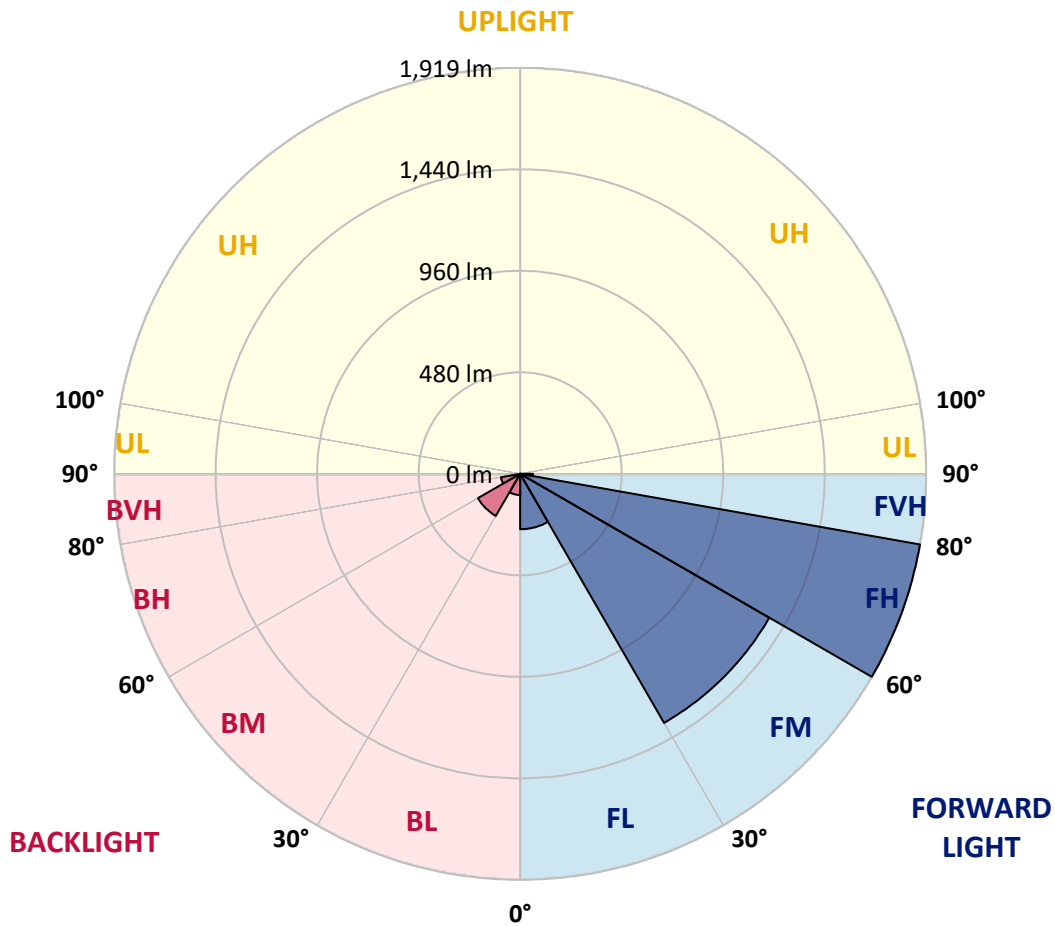
CATALOG NUMBER: GALN-SB1B-835-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 262.2 | 6.5 | | | |
| FM (30°-60°) | 1359.9 | 33.8 | | | |
| FH (60°-80°) | 1919.4 | 47.7 | | | G2/5000 |
| FVH (80°-90°) | 60.6 | 1.5 | | | G1/100 |
| BL (0°-30°) | 100.2 | 2.5 | B0/110 | | |
| BM (30°-60°) | 230.0 | 5.7 | B1/1000 | | |
| BH (60°-80°) | 92.2 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 |
| 2.5° | 481.6 | 482.4 | 481.9 | 478.6 | 473.1 | 470.1 | 468.4 | 462.9 | 459.4 | 453.0 |
| 5° | 525.8 | 529.1 | 527.2 | 520.6 | 510.2 | 502.8 | 500.6 | 489.3 | 479.1 | 467.3 |
| 7.5° | 572.8 | 574.5 | 570.9 | 562.4 | 548.4 | 535.7 | 533.8 | 518.1 | 501.9 | 483.8 |
| 10° | 613.5 | 615.4 | 609.9 | 597.5 | 581.6 | 566.0 | 563.2 | 545.9 | 526.7 | 504.4 |
| 12.5° | 647.5 | 649.5 | 642.3 | 627.5 | 609.9 | 593.7 | 591.0 | 572.8 | 551.7 | 526.9 |
| 15° | 673.4 | 676.9 | 667.3 | 651.4 | 632.4 | 616.2 | 614.9 | 597.0 | 576.4 | 548.9 |
| 17.5° | 688.5 | 692.1 | 683.0 | 663.8 | 647.5 | 633.8 | 632.2 | 617.3 | 598.1 | 571.7 |
| 20° | 691.0 | 694.3 | 684.6 | 667.9 | 654.4 | 643.4 | 642.6 | 631.9 | 617.9 | 592.6 |
| 22.5° | 683.5 | 687.7 | 678.9 | 665.4 | 656.1 | 650.3 | 649.2 | 643.2 | 635.2 | 613.8 |
| 25° | 675.8 | 679.1 | 672.5 | 660.7 | 655.8 | 655.2 | 656.1 | 655.0 | 653.3 | 635.2 |
| 27.5° | 675.3 | 678.9 | 671.4 | 660.2 | 657.4 | 663.2 | 664.0 | 669.3 | 670.6 | 654.7 |
| 30° | 680.0 | 682.4 | 675.3 | 663.5 | 662.1 | 675.3 | 675.6 | 684.9 | 687.1 | 671.2 |
| 32.5° | 690.1 | 692.9 | 685.7 | 668.4 | 666.5 | 684.9 | 685.7 | 698.1 | 701.7 | 688.8 |
| 35° | 714.0 | 717.3 | 709.1 | 682.2 | 675.3 | 694.0 | 696.4 | 711.0 | 718.2 | 707.4 |
| 37.5° | 773.6 | 764.0 | 752.8 | 709.9 | 695.4 | 708.3 | 712.4 | 729.4 | 742.1 | 729.7 |
| 40° | 921.7 | 891.5 | 856.3 | 757.2 | 730.5 | 738.8 | 742.1 | 759.1 | 776.4 | 764.3 |
| 42.5° | 1144.0 | 1108.3 | 1051.7 | 866.0 | 783.5 | 787.7 | 790.1 | 805.0 | 829.4 | 819.8 |
| 45° | 1342.1 | 1329.2 | 1271.5 | 1051.7 | 882.7 | 862.4 | 865.4 | 873.1 | 909.1 | 905.5 |
| 47.5° | 1494.3 | 1486.9 | 1442.4 | 1264.9 | 1050.3 | 953.9 | 962.4 | 966.0 | 1017.9 | 1030.5 |
| 50° | 1611.3 | 1608.6 | 1568.7 | 1454.4 | 1269.3 | 1088.8 | 1091.8 | 1084.1 | 1161.8 | 1193.2 |
| 52.5° | 1721.8 | 1731.1 | 1701.7 | 1630.5 | 1503.1 | 1265.4 | 1264.9 | 1228.6 | 1333.6 | 1380.8 |
| 55° | 1821.5 | 1824.8 | 1827.8 | 1810.2 | 1738.2 | 1466.5 | 1461.3 | 1402.0 | 1532.7 | 1581.6 |
| 57.5° | 1915.2 | 1916.5 | 1943.5 | 1979.5 | 1983.0 | 1682.5 | 1672.9 | 1601.7 | 1750.3 | 1785.2 |
| 60° | 1978.1 | 1984.4 | 2041.3 | 2141.3 | 2185.0 | 1905.3 | 1900.1 | 1827.5 | 1971.8 | 1988.0 |
| 62.5° | 1887.4 | 1925.9 | 2069.3 | 2267.7 | 2375.6 | 2152.3 | 2149.8 | 2081.7 | 2204.7 | 2191.5 |
| 65° | 1527.8 | 1592.9 | 1845.1 | 2353.1 | 2562.7 | 2428.1 | 2431.7 | 2359.1 | 2444.0 | 2401.2 |
| 67.5° | 1068.7 | 1137.4 | 1435.8 | 2360.0 | 2771.8 | 2752.0 | 2772.6 | 2658.9 | 2698.2 | 2602.0 |
| 70° | 739.0 | 774.5 | 968.7 | 2212.2 | 2934.7 | 3198.2 | 3197.6 | 3027.0 | 2950.9 | 2693.5 |
| 72.5° | 497.0 | 515.4 | 629.1 | 1755.0 | 2814.9 | 3463.3 | 3447.4 | 3308.3 | 3036.1 | 2519.0 |
| 75° | 209.6 | 223.1 | 291.2 | 986.3 | 2227.0 | 3168.5 | 3125.4 | 2923.7 | 2697.6 | 1983.6 |
| 77.5° | 66.5 | 72.3 | 114.8 | 353.0 | 1226.7 | 2381.7 | 2336.1 | 1825.9 | 1808.0 | 995.1 |
| 80° | 31.6 | 36.8 | 64.6 | 141.8 | 482.7 | 1295.4 | 1289.0 | 828.3 | 777.8 | 268.7 |
| 82.5° | 13.7 | 16.2 | 35.7 | 75.8 | 215.9 | 462.1 | 471.4 | 281.9 | 233.2 | 101.9 |
| 85° | 4.4 | 5.8 | 16.5 | 34.9 | 91.2 | 114.8 | 113.5 | 67.0 | 94.0 | 55.5 |
| 87.5° | 0.0 | 0.0 | 5.5 | 8.0 | 9.3 | 6.6 | 7.4 | 5.8 | 26.1 | 15.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 440.9 | 0° | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 |
| 446.4 | 2.5° | 443.1 | 438.7 | 431.1 | 423.9 | 417.6 | 411.3 | 407.4 | 401.9 | 401.4 | 401.4 |
| 453.6 | 5° | 446.2 | 439.0 | 425.3 | 410.7 | 394.0 | 378.0 | 362.1 | 346.7 | 341.8 | 338.2 |
| 465.1 | 7.5° | 455.0 | 443.7 | 422.0 | 394.2 | 362.4 | 327.5 | 303.0 | 276.7 | 266.5 | 261.0 |
| 480.5 | 10° | 467.6 | 452.2 | 419.2 | 370.6 | 319.0 | 271.4 | 236.5 | 208.0 | 197.0 | 192.3 |
| 497.3 | 12.5° | 481.6 | 462.7 | 414.3 | 341.2 | 271.4 | 214.6 | 180.5 | 167.3 | 165.7 | 165.7 |
| 517.3 | 15° | 498.4 | 475.3 | 405.8 | 306.6 | 221.7 | 169.8 | 157.7 | 158.2 | 159.9 | 161.0 |
| 536.8 | 17.5° | 515.7 | 488.8 | 392.3 | 267.9 | 177.8 | 152.8 | 153.0 | 153.9 | 155.2 | 156.3 |
| 558.0 | 20° | 534.4 | 502.2 | 374.5 | 226.7 | 152.5 | 147.8 | 148.6 | 149.5 | 150.6 | 151.1 |
| 577.8 | 22.5° | 554.4 | 514.9 | 353.3 | 186.3 | 144.0 | 143.7 | 144.0 | 144.8 | 146.2 | 146.2 |
| 600.8 | 25° | 575.8 | 528.9 | 329.1 | 156.9 | 139.6 | 139.6 | 140.1 | 140.7 | 141.8 | 141.8 |
| 623.1 | 27.5° | 597.8 | 541.8 | 303.6 | 141.5 | 135.7 | 135.4 | 135.4 | 136.3 | 136.8 | 137.1 |
| 645.1 | 30° | 622.0 | 556.9 | 278.0 | 138.2 | 132.7 | 131.3 | 130.5 | 131.0 | 131.6 | 131.9 |
| 668.2 | 32.5° | 646.7 | 571.4 | 255.2 | 139.6 | 129.7 | 127.2 | 124.5 | 123.9 | 123.9 | 125.0 |
| 692.1 | 35° | 674.2 | 587.4 | 237.6 | 144.2 | 128.0 | 121.2 | 116.8 | 114.3 | 114.6 | 116.2 |
| 720.6 | 37.5° | 707.2 | 606.6 | 224.7 | 148.4 | 126.9 | 114.3 | 107.1 | 104.1 | 102.2 | 104.1 |
| 759.9 | 40° | 750.3 | 634.9 | 215.4 | 151.7 | 125.6 | 106.3 | 96.7 | 91.8 | 88.2 | 89.3 |
| 820.9 | 42.5° | 813.8 | 679.4 | 211.8 | 151.9 | 122.5 | 97.0 | 86.0 | 79.4 | 74.2 | 74.5 |
| 912.7 | 45° | 902.8 | 749.7 | 230.2 | 148.4 | 115.9 | 86.8 | 74.7 | 65.9 | 62.6 | 61.8 |
| 1049.8 | 47.5° | 1024.8 | 852.2 | 272.8 | 140.9 | 106.3 | 76.9 | 63.7 | 56.3 | 53.8 | 52.5 |
| 1229.7 | 50° | 1188.2 | 983.8 | 320.1 | 132.7 | 96.7 | 67.6 | 54.7 | 50.0 | 48.4 | 47.0 |
| 1443.2 | 52.5° | 1377.8 | 1117.3 | 358.8 | 124.5 | 87.1 | 59.3 | 48.9 | 46.2 | 44.8 | 43.7 |
| 1649.2 | 55° | 1551.7 | 1209.4 | 356.6 | 115.7 | 77.7 | 52.7 | 44.8 | 43.1 | 41.5 | 40.4 |
| 1826.7 | 57.5° | 1659.9 | 1222.3 | 294.0 | 106.0 | 67.0 | 47.5 | 40.9 | 39.8 | 37.9 | 36.5 |
| 1980.3 | 60° | 1709.7 | 1148.7 | 206.1 | 93.4 | 56.3 | 42.6 | 36.8 | 36.3 | 33.8 | 31.9 |
| 2125.6 | 62.5° | 1718.7 | 1011.8 | 137.4 | 77.7 | 47.0 | 37.9 | 32.7 | 31.9 | 28.6 | 25.3 |
| 2243.7 | 65° | 1681.9 | 816.2 | 95.1 | 60.7 | 40.1 | 33.0 | 28.0 | 26.4 | 22.8 | 19.5 |
| 2271.8 | 67.5° | 1565.4 | 573.1 | 66.2 | 43.7 | 34.1 | 26.1 | 22.3 | 21.7 | 19.0 | 16.2 |
| 2128.9 | 70° | 1352.0 | 326.7 | 44.2 | 32.7 | 26.9 | 17.9 | 17.6 | 18.1 | 15.4 | 13.2 |
| 1739.3 | 72.5° | 1036.6 | 149.5 | 27.5 | 23.9 | 18.4 | 12.1 | 14.0 | 14.3 | 11.8 | 9.9 |
| 1085.2 | 75° | 610.2 | 64.0 | 17.3 | 15.4 | 9.3 | 8.0 | 10.2 | 10.4 | 8.0 | 6.3 |
| 396.7 | 77.5° | 207.7 | 24.2 | 11.0 | 9.1 | 4.7 | 4.4 | 6.6 | 6.6 | 4.4 | 2.5 |
| 79.7 | 80° | 47.3 | 9.1 | 5.5 | 3.6 | 2.2 | 1.9 | 2.2 | 1.9 | 1.1 | 0.3 |
| 24.5 | 82.5° | 13.5 | 3.6 | 2.2 | 1.4 | 0.8 | 0.8 | 0.3 | 0.0 | 0.0 | 0.0 |
| 8.5 | 85° | 3.8 | 1.6 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3.0 | 87.5° | 1.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| |
|-------------|
| <u>180°</u> |
| 440.9 |
| 402.8 |
| 339.8 |
| 261.8 |
| 192.3 |
| 165.7 |
| 161.0 |
| 156.3 |
| 151.4 |
| 146.7 |
| 142.0 |
| 137.4 |
| 132.4 |
| 125.8 |
| 117.0 |
| 103.6 |
| 88.7 |
| 73.4 |
| 60.7 |
| 51.6 |
| 46.7 |
| 43.4 |
| 39.8 |
| 36.3 |
| 31.3 |
| 23.6 |
| 18.4 |
| 15.4 |
| 12.1 |
| 8.8 |
| 5.5 |
| 1.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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